

19990801.qrp v01_n535.qrl.990801

Date: Sun, 1 Aug 1999 19:03:10 EDT

From: qrp-l@Lehigh.EDU

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: QRP-L digest 1535

QRP-L Digest 1535

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- 2) [46526] Helical/Slinky Antenna Info?
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by "Chuck Adams K7Q0" <adams@ticnet.com>
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- 13) [46537] Re: PSK-31
by Bob Nielsen <nielsen@primenet.com>
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by Daniel Bartlett <ausham@rocknet.net.au>
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by "Adrian Hatherley" <ced@ozemail.com.au>
- 17) [46541] Music and CW
by barry kirkwood <bjk@ihug.co.nz>
- 18) [46542] Re: PSK-31
by John R Kirby <n3aaz-qrp@juno.com>
- 19) [46543] My Website

- by "Ian C. Purdie VK2TIP" <ianpurdie@integritynet.com.au>
- 20) [46544] Re: Helical/Slinky Antenna Info? (Very long)
by Bruce Muscolino <w6toy@erols.com>
- 21) [46545] LCD Clock...For UR Shack
by KF4EIB@aol.com
- 22) [46546] Re: Homebrew Ladder Line (was Re: Homebrew G5RV)
by Drbob92031@aol.com
- 23) [46547] Homebrew Ladder Line - the 12-step program
by S LYON <sslyon@worldnet.att.net>
- 24) [46548] Small Beam Series updated
by "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
- 25) [46549] Re K7QO building remarks and the K2
by PDouglas12@aol.com
- 26) [46550] RS Scanner Antenna # ?
by barry.p.keating.1@nd.edu
- 27) [46551] Re: RS Scanner Antenna # ?
by "Tom H" <biskit@snip.net>
- 28) [46552] Re: Homebrew Ladder Line (was Re: Homebrew G5RV)
by w4bws@juno.com
- 29) [46553] Vibroplex Deluxe Bug to trade for a 40m qrp kit
by mailbox-gaskins <pgaskin@imcnet.net>
- 30) [46554] Re: Homebrew Ladder Line (was Re: Homebrew G5RV)
by Ted Beach <k4mkx@netzero.net>
- 31) [46555] Re: PSK-31
by "George T. Baker" <w5yr@swbell.net>
- 32) [46556] Still undigested
by EBikales@aol.com
- 33) [46557] Small Wonders DSW 40
by GElam30092@aol.com
- 34) [46558] Re: Still undigested
by "Steve Yates, AA5TB" <aa5tb@swbell.net>
- 35) [46559] Re: Still undigested
by "Richard Brummer" <obvious@bestweb.net>
- 36) [46560] MTP3055E Same as MTP3055V or MTP3055VL?
by Brian Kassel <bkassel@dancris.com>
- 37) [46561] Heathkit Green Paint-by-Numbers
by Michael Bower <bowerm@ix.netcom.com>
- 38) [46562] CQ Summer Daze SSB Sprint
by radioham@erols.com
- 39) [46563] Re: antenna wire
by "Al Gritzmacher " <ae2t@arrl.net>
- 40) [46564] Trade for qrp rig
by RangerSF5@aol.com
- 41) [46565] Re: LCD Clock...For UR Shack
by "Ian C. Purdie VK2TIP" <ianpurdie@integritynet.com.au>
- 42) [46566] Re: Small Wonders DSW 40
by "Jeffrey L. L. Greer" <wd4et@juno.com>
- 43) [46567] Homebrew variable inductors

by "Ian C. Purdie VK2TIP" <ianpurdie@integritynet.com.au>
44) [46568] DSW Enclosures- Status Report
by Bensondj@aol.com
45) [46569] Re: Homebrew variable inductors
by Chris Trask <ctrask@primenet.com>
46) [46570] DX Worked on SSB
by "Ron Polityka" <wb3aal@talon.net>

Date: Sat, 31 Jul 1999 18:51:26 -0500
From: Michael Melland <badger@vbe.com>
To: qrp-l@lehigh.edu
Subject: [46525] K1EL's K9 keyer/processor
Message-ID: <37A38BFD.4744D9F5@vbe.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi guys,

Finally had some time this afternoon to melt a bit of solder again. I received a K1EL "K9" keyer/processor with the KPCB printed circuit board last week and was looking for a quick project for today so I built myself a keyer. The circuit board made this build pretty easy. I made the keyer in a RS infrared enclosure. I built it to run off internal battery (2 ea AA's) or an external power source of up to 15 volts and configured it with an internal piezo speaker as well as provision to drive an external 8 ohm speaker. The keyer is working great ! It's set up with 3 memories preprogrammed and 2 that you can enter yourself (up to 15 characters). I didn't try to build it into a rig 'cause my NC-20 already has a TICK and I have a couple of other rigs I camp with I want to use it on too. In short the keyer works great, as advertised, is small enough to build into a radio and is easy to use..... The K9 chip and PC board was \$10 and you provide the enclosure, connectors of choice for key, speaker, and the rest of the parts..... total cost for me was about \$16 (I didn't have a handy enclosure around and had to actually buy one)..

73

--

Michael Melland, W9WIS
Winneconne, Wisconsin, USA
FISTS #4387, 10-10 #69281, QRP-L #1656,
QRP-ARCI #9875, AK/QRP #478, NorCal
CW, SSB, and Electronics

List Administrator: grundig@qth.net
<http://www.qsl.net/w9wis>

Date: Sat, 31 Jul 1999 17:04:49 PDT
From: "Scott Robbins - VE7CCY" <ve7ccy_srobbins@hotmail.com>
To: qrp-1@Lehigh.EDU
Subject: [46526] Helical/Slinky Antenna Info?
Message-ID: <19990801000449.69181.qmail@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

Does anyone know where I can find design/schematic information for a helical/slinky antenna? I want to use one for 20m QRP inside my apt. Has anyone had any experience with these types of antennas?

Thanks and 73,
Scott

**** Hope to hear you on the air next Saturday, August 7 for the QRP National Park Expedition!! For more information, see <http://www.geocities.com/SiliconValley/Monitor/1070/events.html>

Get Your Private, Free Email at <http://www.hotmail.com>

Date: Sat, 31 Jul 1999 18:00:46 -0600
From: Tim Hodges <7twh@ttc-cmc.net>
To: qrp-1@Lehigh.EDU
Subject: [46527] QRP 1:1 balun design
Message-ID: <37A38E2E.5BD6F354@ttc-cmc.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi All..

Does anyone have any pointers (especially to the web) for a low power 1:1 balun. I have looked the balun designs in the Handbook but all are larger

and more power than I need.

Tim
KD7JZ
7twh@ttc-cmc.net

Date: Sat, 31 Jul 1999 19:34:16 -0500
From: "Kevin Muenzler WB5RUE" <wb5rue@stic.net>
To: "'Low Power Amateur Radio Discussion'" <qrp-1@Lehigh.EDU>
Subject: [46528] RE: Radio Shack DMM
Message-ID: <000101bedbb5\$a1ff9e00\$443fc6d8@wb5rue>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

I have found all of Radio Shack's meters to be of excellent quality. I suspect that some of their high dollar ones are made by Fluke. They are the same shape but not the familiar Fluke yellow.

73/72

Kevin, WB5RUE

Date: Sat, 31 Jul 1999 19:40:11 -0500
From: "George T. Baker" <w5yr@swbell.net>
To: 7twh@ttc-cmc.net
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [46529] Re: QRP 1:1 balun design
Message-ID: <37A3976B.DB29E77F@swbell.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Don't know your size restrictions, Tim, but it is hard to beat the W2DU style of balun which consists of 50 #73 ferrite beads strung along about a foot of RG-303 Teflon coax. Think it will handle your QRP as the specs say 9 KW at 10 MHz! ;^)

If the linear form factor won't work for you the cable can be bent somewhat, of course.

The Wireman sells kits for these at \$9.50 each plus S&H. Just got two kits in the mail today. He does have a web site but don't recall the URL. Usual disclaimer . . .

72/73, George AMA 98452 R/C since 1964

Amateur Radio W5YR, in the 53rd year and it just keeps getting better!
AutoPOWER Systems, Fairview, TX (30 mi NE Dallas) Collin County
QRP-L QRP-ARCI FISTS NORCAL ZOMBIE ARS 10-X 33.2 N 96.6 W EM13RE

Tim Hodges wrote:

> Does anyone have any pointers (especially to the
> web) for a low power 1:1 balun.

Date: Sat, 31 Jul 1999 21:51:03 -0400
From: "Alex Mendelsohn" <ai2q@ispchannel.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Cc: "K8IQY Jim Kortge" <jokortge@cwix.com>
Subject: [46530] 2N2/40 Mea culpa!
Message-ID: <000001bedbc0\$5037f1c0\$5c32a7d0@mendelsohn.ispchannel.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 8bit
Content-Transfer-Encoding: 8bit

Hi 2N2/40 folks:

Here s more info and insight on the 2N2/40 since my posting last week -and a much-needed correction.

K8IQY, Jim Kortge, kindly responded to my last note about the oscillating IF amplifier I was experiencing in my 2N2/40.

Mea culpa! I made a mistake that he immediately caught. The calculation of X_c that I derived was calculated at 7 MHz, which--as Jim immediately pointed out to me offline -was wrong. (I admit it--I m getting older, and it was a late hour). I hope I didn t cause anyone any grief.

Of course the IF doesn t work at 7 MHz, it s a 4.915 IF strip. How could I overlook that very significant fact!?

Going back to the basic theory we all studied to pass our license exams, I recalculated X_c , as did Jim. As he points out, X_c for an 820 pF bypass cap

across emitter resistor R23 is about 39 ohms, and the reactance for my 390 pF cap is about 83 ohms.

By the way, Jim mentions that a 470 pF cap would almost precisely satisfy the 10:1 ratio rule. X_c for 470 pF works out to 68.9 ohms. That's a ratio of just about 10:1 with R23's value.

Get out your El Cheapo scientific calculator and do the calculations yourself. I recommend the Casio or Texas Instruments ones. (What's this? You don't have one? They're VERY powerful and fully featured and cost \$12 to \$20, so there's no excuse not to have one alongside your LCR meter or DMM).

Anyway, $X_c = 1 / 2(\pi)fC$, right?

Solving this correctly now for my 390 pF selection results in a ratio of emitter resistor value to reactance ratio of 8.2:1, which is below the 10:1 objective. Jim correctly notes that this value I got is ...a more conservative value.

However, Jim mentioned to me something that's very interesting, but I'm still unclear about.

Jim says that the 10:1 rule is ...a very good general rule, but there are many exceptions. I'm going to show you one....

He goes on to say: ...the reason that the 820 pF value was chosen was that this amplifier is designed to have a gain peak right at 4.915 MHz by virtue of the increasing gain with frequency due to the 820 pF value, and reaching the gain-bandwidth product of the stage, for the two transistors involved. Reducing the emitter capacitor to 390 pF reduces the gain at 4.915 MHz, but shifts the curve upward so that maximum gain is at about 6.5 MHz, not a desirable situation. While the maximum stage gain is a bit lower, it is only by about 1 dB or thereabouts.

Jim also states: ...I don't think the solution is as good as it could be, since the stage gain is still too high, but now at a different frequency.

Jim has kindly done further computer modeling and has suggested a new circuit configuration for the 2N2/40's IF, along with some new values of components. I may get a chance to try his suggestions soon if I can get enough gumption to rip up the IF as it is after my changing C24 from 820 pF to 390 pF (I'm chicken to do another modification, cuz this one works so well now and my board layout is nice and tight!).

But, my question is: If the gain-bandwidth product is shifted upwards, wouldn't it make no difference to how the IF worked Jim?

As long as there's sufficient gain under the GBW curve which is to say there

s sufficient gain at 4.915 MHz even if the gain reaches a peak 6.5 MHz isn't that sufficient? Why would I want to care if the amplifier strip s gain extended out to, say, 10 MHz and the GBW reached unity gain at, say 20 MHz for argument's sake, or higher?

Or, put another way, as long as there s sufficient gain in the passband of interest, which is set primarily by the crystal filter components, why would it matter if the amplifier s gain peaked higher in frequency, in this case with my 390 pF cap, at 6.5 MHz?

Jim also mentioned to me that his newest modeling may make the IF amplifier less susceptible to gain changes caused by bias changes due to changes in the power supply voltage.

Vy 73, AI2Q, Alex in Kennebunk, Maine .-.-.

Date: Sat, 31 Jul 1999 23:48:41 EDT
From: RangerSF5@aol.com
To: QRP-L@lehigh.edu
Subject: [46531] ++++++ 38 Special+++++
Message-ID: <47619bc4.24d51d99@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi Gang,
I just finished checking all the voltages on the 38 special.
The sidetone and my CW note are nice and clean.
I worked another station and used the SST for the RX.
The RX in the 38'S is still giving me a distorted tone as long as the RF gain is turned full CC.
If I turn it back 1/4 of a turn, the distorted tone goes out but the RX is DEAD.
I do hear faint AM BC stations but so far no ritty or CW.
I want to MOD this rig out all the way but It would be nice to get the RX working first.
Any suggestions?
Thanks
Bob
WA2HOQrp <tm>

Date: Sun, 01 Aug 1999 00:15:36 -0400

Dave Ackrill wrote:

```
> insulator
```

> There being no brake in the wire where the feeder becomes the
> antenna element. So, nothing to go rusty, or break under strain.

Thanks and 73,

-Tim
kg2no@arrl.net
ORP-L #780

Date: Sat, 31 Jul 1999 23:25:16 -0500
From: "Charles Hamel" <cdhamel@pdq.net>
To: "QRP List" <qrp-l@Lehigh.EDU>
Subject: [46533] PSK-31
Message-ID: <001b01bedbd5\$de9b76c0\$cf18dfd1@cdhamel>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="windows-1250"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Does anybody know if you can use a SWL40+ using PSK-31 mode??
and if so how would you connect it to the computer??

thanks

Charles
KC5DXQ - Norcal Zombie - HQRP- QRP-L #1919
<http://www.angelfire.com/de/kc5dxq/index.html>

Date: Sat, 31 Jul 1999 23:48:11 -0500
From: "Chuck Adams K7Q0" <adams@ticnet.com>
To: qrp-l@lehigh.edu
Subject: [46534] K7Q0 web pages
Message-ID: <E11AnVL-0006er-00@pop3.ticnet.com>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Content-Transfer-Encoding: 7BIT

Gang,

OK, after half a day or more of qsl.net being down
I managed (I think) to recreate everything, modified
links, and thanks to the offline backup that others
do when they download stuff from the Internet I
managed to get the .pdf files back online. Thanks
to all of you that sent me attachments. I have to
browse through a couple that managed to reduce the
.pdf file size down from that of .ps files. Dweeb
stuff at work I'm sure.

This .pdf in request for the Dave Benson, NN1G, SW-40+ schematics for the Elmer101 Series of articles. That is still a neat rig IMHO for the beginners and newbies. I find the resolution of .pdf using Acrobat from Adobe to be outstanding on an Epson Stylus COLOR 600. Looks as good as printing a .ps file on a PostScript printer. Miracle of modern day technology.

If you have never soldered before, here are the steps that I recommend and mileage may vary and others will/may disagree:

1. Read the ARRL Handbook on soldering techniques.
2. Get the VE3DNL Marker Generator from W5JAY for \$10 and build it and debug it.
3. Get the Small Wonder Labs SW-40+ or SW-30+ and build it. Take your time and do it neatly.

Then the world is all yours to build and experiment with all the wonderful opportunities available from many QRP rig companies... Every journey begins with a single step. You get the roadmap and mark your route. Explore new territories. Just bring money... :-)

FYI

Chuck Adams K7Q0/5 adams@ticnet.com <http://www.qsl.net/k7qo/>

Date: Sat, 31 Jul 1999 22:35:41 -0700
From: David J Adams <adamsclan@netgate.net>
To: qrp-l@lehigh.edu
Subject: [46535] QRPL Archive CDROM
Message-ID: <37A3DCAD.64B4EE2@netgate.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Greetings! I just sent out the last batch of CDROMs which have been ordered. I have 6 extra copies burned, so if anyone else still needs this CD, \$10 pays for the disk/postage/etc

73 de dave, n9uxu/6

Date: Sun, 1 Aug 1999 01:48:53 EDT
From: EBikales@aol.com
To: Qrp-l@lehigh.edu
Subject: [46536] Musicians and code
Message-ID: <9944ba7b.24d539c5@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

To Adam N7YA et al,
Thank you so much for your very kind description of our QSO---which I also remember very well. I enjoyed talking to you on CW and was hoping that one day we might get together for a brewski. Believe it or not, I will be in Las Vegas again at the Orleans Hotel and Casino Aug. 24-29. I have not tried to set up an antenna there yet, but now I'm really thinkin about it. One of my favorite activities in ham radio (besides CW/QRP) is putting up antennas and operating from weird, unlikely places. Touring with Neil affords me that opportunity, and I have quite a few entertaining stories about things that have happened to me while "in the line of duty". As for the musical thread running here, I do concur that we musicians seem to have an easier time with the code. I love it. Although, the thought of having to apply Ohm's Law sometimes makes me break out in a cold sweat! I know this may sound weird, but I'm in awe of you guys with pocket protectors. I wish I could understand radio theory like some of you cats. Code---no problem.
Best 73,
Eric Bikales AC6NT

Date: Sat, 31 Jul 1999 22:50:07 -0700
From: Bob Nielsen <nielsen@primenet.com>
To: Charles Hamel <cdhamel@pdq.net>
Cc: qrp-l@lehigh.edu
Subject: [46537] Re: PSK-31
Message-ID: <19990731225007.C14068@bob>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii

On Sat, Jul 31, 1999 at 11:25:16PM -0500, Charles Hamel wrote:
> Does anybody know if you can use a SWL40+ using PSK-31 mode??

> and if so how would you connect it to the computer??

You might be able to receive (I'm not sure what audio frequencies are used or if the i.f. bandwidth would be too narrow), but you'd have to be able to modulate the radio to transmit. I'd recommend an SSB radio (WM, etc.) You connect to a SoundBlaster or equivalent sound card.

Bob

--

Bob Nielsen Internet: nielsen@primenet.com
Tucson, AZ AMPRnet: w6swe@w6swe.ampr.org
DM42nh http://www.primenet.com/~nielsen

Date: Sun, 1 Aug 1999 02:24:23 -0500
From: "Paul Anton" <anton@ais.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [46538] WTB - HW9
Message-ID: <199908010725.DAA45118@nss4.cc.lehigh.edu>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi all,

I am looking to buy an HW-9 that is in good condition. Would like it if it came with the WARC module. If anyone has one at a reasonable price, please email directly to me.

Tnx

Paul QRP-L#1903

Date: Sun, 1 Aug 1999 17:49:15 +1000
From: Daniel Bartlett <ausham@rocknet.net.au>
To: "'qrp-l@Lehigh.EDU'" <qrp-l@Lehigh.EDU>
Subject: [46539] My Website
Message-ID: <01BEDC46.2D17ABA0@rocknet>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: quoted-printable
Content-Transfer-Encoding: quoted-printable

Hi All.

I am Daniel Bartlett, VK4HDB, a 14 year old, Aust. Amateur Operator =
(Lic. 16th June, 1999). I have built a website, which you can find at =
<http://www.qsl.net/vk4hdb/index.htm>
Please visit it and sign the guestbook.

73 & Best Regards
Daniel Bartlett, VK4HDB
ausham@rocknet.net.au
<http://www.qsl.net/vk4hdb/index.htm>

Date: Sun, 1 Aug 1999 19:49:09 +1000
From: "Adrian Hatherley" <ced@ozemail.com.au>
To: <qrp-1@Lehigh.EDU>
Subject: [46540] KnightSmite
Message-ID: <005501bedc0a\$a9d45080\$893afea9@t7v8f9>

Hi Gang,

First message to the reflector, so HI to all.
I am very interested in getting my hands on a Smite (KnightSmite), but see
front the club's Web page that the kit is finished.
Is there anyone out there that might have one they want to dispose of? If
so... I'm interested.

Cheers for now.
Best 73.
Ade VK3LK.

Date: Sun, 1 Aug 1999 23:28:57 +1200
From: barry kirkwood <bjk@ihug.co.nz>
To: qrp-1@Lehigh.EDU
Subject: [46541] Music and CW
Message-ID: <199908011128.XAA29410@smtp1.ihug.co.nz>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

One of the few studies I know that provided an objective predictive test for
morse skill used the Seashore Test for musical ability. So anecdotal
evidence of relationship between musical and morse code skill supported by

research.

The Seashore Test as I recall presented pairs of sounds, the task being to judge them same or different. The sounds varied pitch and rhythm over quite a wide range.

Some good news: Latent learning: Painless. It is established that just passively listening to a foreign language accelerated language acquisition when a person later tries to learn it. This is also the case for Morse. If wanting to get with cw, just play the stuff as background music for a while before getting serious.

73 es GL
Baz ZL1DD
end
Barry (Baz) Kirkwood PhD ZL1DD ex ZL1BN, ZL40K etc
Signal Hill
66 Cory Road
Palm Beach
Waiheke Island 1240
NEW ZEALAND
www.waiheke.co.nz/signal.htm
Ph/Fax 64-9-372-5161

Date: Sun, 1 Aug 1999 08:07:52 -0400
From: John R Kirby <n3aaz-qrp@juno.com>
To: cdhamel@pdq.net, qrp-1@Lehigh.EDU
Subject: [46542] Re: PSK-31
Message-ID: <19990801.080940.-65801.0.n3aaz-qrp@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

>
>Does anybody know if you can use a "CW only" radio for PSK-31 mode??
>

You will need a SSB radio in the USB mode to transmit PSK31.

To receive PSK31 with a CW only radio, maybe. . .

>and if so how would you connect it to the computer??

Transmit path;

>From the sound card LINE output to the radio LINE input.
If you *MUST* use the radio MIKE INPUT
an ATTENUATOR IS REQUIRED
see the HELP file for configuration.

Receive path;
>From the radio audio out to the sound card LINE input
(again here if your soundcard has only a MIKE input
you will also need an attenuator).

For CW only radios
give this a try. . .

Radio bandwidth, no problem,
the PSK31 software establishes the
receive bandwidth (about 31 Hertz) and all
CW radios are wider than 31 Hertz.

Radio VFO stability maybe a problem, but
the PSK31 software has AFC that can track
to *about* a 5 Hertz tuning / stability resolution,
10 Hertz or more may be a problem, however
it will lock for short periods.

First tune the radio > S L O W < VERY VERY SLOW for
a *center* stationary *water fall* display as shown in the Help file.
If the software *locks* (tuning eye goes from red to yellow) and
you see two *spokes* in the *wheel* but
print is still garbage means that the radio is tuned to the
wrong sideband, if you can tune the radio to the other sideband
(some radios will do so by just turning the front panel
main tuning knob >through< *zero beat* to the >other< sideband)
else you will have to go inside the radio to make the adjustment.
Note, if you lock and see FOUR spokes in the wheel
the distant end is transmitting QPSK mode, goto
to the MODE menu and click "QPSK".

New version (1.07) for Windows 3.1, Windows 95/98, Windows NT with
Soundblaster. (At least a 486/33, perhaps less with slower rates). With
Soft-decision Viterbi, better squelch, and a much better AFC. Now with
Slash-0 configurable on reception.
...jk...Tnx goto. . . G3PLX >>p31sbw107.zip<< at *thanks to, EA2BAJ*
>><http://aintel.bi.ehu.es/psk31.html><< . . .

Proposed frequencies for PSK31 QSO

- The plan for PSK31 activity has always been (since PSK31 started just 3
years ago) to concentrate activity starting from the bottom edge of the
IARU RTTY bandplan, expanding upwards as activity increased. The

exception is in the 10mts band in order to give non full privileges ham to meet. It was defined as 150 Hz above it. Keep in mind that all you need is about 100 Hz as channel separation.

1838.150
3580.150
7035.150
10140.150
14070.150
18100.150
21080.150
24920.150
28120.150

Enjoy,
PSK31 is a *super* weak signal *QRP* mode.
Five Watt from MD to VK2 with a G5RV (twice) and
to Europe (a bunch).

73
John
N3AAZ
FM19xa

Get the Internet just the way you want it.
Free software, free e-mail, and free Internet access for a month!
Try Juno Web: <http://dl.www.juno.com/dynoget/tagj>.

Date: Sun, 01 Aug 1999 22:38:16 +1000
From: "Ian C. Purdie VK2TIP" <ianpurdie@integritynet.com.au>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [46543] My Website
Message-ID: <37A43FB8.55A23301@integritynet.com.au>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Gang,

I noticed young Daniel sent us all an email about his web site.

Daniel is a fine, polite young man and I believe for a 14 year old his achievements are quite impressive. A look at his site will certainly confirm this for you.

<http://www.qsl.net/vk4hdb/index.htm>

Daniel is also a student of mine.

73's

Ian Purdie

VK2TIP "I'll give you the TIP mate"

Budgewoi N.S.W. Australia

Tel: 61 + 2 + 4399 3228 (2200 - 0800 U.T.C. please.)

QRP-L member #1978.

URL - <http://www.integritynet.com.au/~purdic/>

URL - <http://www.qsl.net/vk2tip/>

"Three out of five Web experts agree that frames are the work of the devil and represent all that is evil about the Web. The remaining two experts are agnostic and think that frames are just a stupid idea" -

Date: Sun, 01 Aug 1999 08:57:27 -0400

From: Bruce Muscolino <w6toy@erols.com>

To: ve7ccy_srobbins@hotmail.com

Cc: QRP-L@LEHIGH.EDU

Subject: [46544] Re: Helical/Slinky Antenna Info? (Very long)

Message-ID: <37A44437.2EF8@erols.com>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Content-Transfer-Encoding: 7bit

Scott,

I probably have as much experience as anyone who has built and used actual helically wound antennas as anyone on the list. The following pointers apply:

1. They are very much affected by external object loading.
2. The longer the better.
3. They have abominably low radiation resistances.
4. They have abominable low feedpoint impedances.

In the beginning, I knew nothing about them. I saw an article in the ARRL Antenna Handbook on using them as verticals and theorized that a dipole was just two verticals back to back. They are, of course, but there are many differences!

The first helically wound antenna I built and used was a 40 meter dipole. I used 1 inch PVC pipe as the form and wound it with #18 wire. I made the 'dipole' connection with a PVC cross in the center. I hung it from the curtain rod of my second floor California apartment.

I will never forget my girlfriend's laughter as I worked with wire cutters, grid dip meter and wire to rsonate the damned thing in teh 40 meter band! It took several days to figure out all the factors that might be affection it. There was number of turns, winding pitch (turns per inch), and a whole host of external factors like room size and whether the curtains were open or closed!

I finally got it to resonate and then came the feedpoint problem. I knew it was low from reading, just how low I had no conception! I used a toroidal transformer to match the impedances. In retrosepct a small 'L' network would have done as well!

On 40 it worked. Not really well and not really poorly. The time was 1976-77, about equal to right now in the sunspot cycle. I was able to work pretty reliably out to 400 miles (northern California) with really good responses from British Columbia and Michigan! 15 meters was a whole 'nother story! I was able to work some DX and about 45 states with it.

Conclusions. The longer the better. The larger the ratio between the antenna's length and a full $1/2$ wave the better; for a vertical use $1/4$ wave. The impedance transformation is also important in getting the best efficiency. And external loading from nearby objects must be accounted for. A helical antenna makes real the idea that the antenna is part of its environment!

I have built and used several helical antannas since. A 20 meter dipole that was 3 meters long, end to end, and used a Gamma Matching system to do the information transformation. I used this antenna both in Holland and in California (both QRO and QRP) with good results. I worked all continents running 5 watts from Holland in a two week period. Of course this was in the height of the sunspot cycle! And, of course, a 9 meter long antenna is about $1/2$ size at 20 meters.

I have also used Hamsticks and an Outbacker as verticals. All the above mentioned factors apply heer plus one very important one, GROUND! Every vertical (except a vertical dipole) is affected by the quality of its ground. Make it the very best you can!

That's about it in a very thin nutshell. If you have more specific questions I'll try to answer them. Good luck...

Date: Sun, 1 Aug 1999 09:22:02 EDT
From: KF4EIB@aol.com
To: qrp-1@lehigh.edu
Subject: [46545] LCD Clock...For UR Shack
Message-ID: <868413e.24d5a3fa@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Great Day to All,

Gang, stopped in a Radio Shack (mall version) in Richmond, VA yesterday 7/31/99.

Found a Travel Alarm Clock (RS 63-959) on sale for \$12.99. So.....

Details:

Screen 1.6"

Batt. 1 "AAA"

Color Light Gold Tone (Fits well with all gear ;-)

Features Time.... Can be set for 24 hr. format

Date.... Month, Day and Day of week

Thermometer..... Do you REALLY want to know how HOT Field

Day

was / can be?

Touch bar..... Gives display nice blue backlight (Night

QSO's)

Lite weight...Easy to stow with other gear

Size.....2.25W 3.00L .75D (Folded up for

travel...Cover swings out

to function as stand)

Do not know how long sale is in effect..... even so, regular price was around \$15.00 or so. Not a bad price IMHO. So far real pleased with unit.

Usual disclaimer...YaDa YaDa... just a happy customer.

Great item for QRP'ers

73,

Gordon kf4eib

Date: Sun, 1 Aug 1999 10:20:16 EDT
From: Drbob92031@aol.com
To: kg2no@arrl.net, qrp-1@lehigh.edu

Subject: [46546] Re: Homebrew Ladder Line (was Re: Homebrew G5RV)
Message-ID: <8bb6074c.24d5b1a0@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

In a message dated 8/1/99 12:16:14 AM Eastern Daylight Time, kg2no@arrl.net writes:

<< What is light weight, low
visibility, fairly strong, that can be used as a spreader? How
would you bind it to the wire? >>

Tim;

Light weight , readily available and easy to attach. invisible ;sorry but no.
Use this idea as a starting point. Plastic forks. The kind you get at fast
food places or go to a party store or super market and buy a pack of clear; (
invisibility)plastic forks. Perhaps 100 to the box or bundle or walk into the
fast food joint and "requisition" your needs.

Depending on how much space between wires; you will want in your ladder line,
you cut off enough of the handle of the fork so that the cut end of the fork
to the point where the tines(prongs) of the fork leave the handle is the
space between the wires.

For each spreader you will use 2 (two) altered forks. Lay them one on top of
the other. In the manner I will now describe. Handle on top of handle. The
prongs of each cut-off fork face away from each other and in the same
direction. Attach the handles together by either crazy glue or melt by heat
or chemical solvent so that the two altered forks are now one unit.

ATTACHING THE WIRE; The wire of the ladder line is slipped(woven is a better
word) between alternate prongs of each fork. Fix them in place(the wire and
the prongs by the same method as you adhered the cut-off handles.

By now you should have the idea of what I am trying to explain if not; going
on will not make it any clearer!!!!

72/73 de WA2EAW...Bob

Date: Sun, 01 Aug 1999 10:29:37 -0400
From: S LYON <sslyon@worldnet.att.net>
To: kg2no@arrl.net
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [46547] Homebrew Ladder Line - the 12-step program
Message-ID: <37A459D1.7BCCF120@worldnet.att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Greetings, chaps

Those interested in HB ladderline will soon see an article -probably in the next QQ -but for now, here's a quick outline:

- 1.) #16 or #18 THHN solid or stranded. (Home Depot. \$13/500ft roll)
- 2.) Roll of 95 mil weed-wacker line. (\$9/roll. -I think)
- 3.) Cut wacker line to 4" lengths while enjoying libation, snacks, TV.
- 4.) Bend nylon ends around a small hot solder iron tip. Make 1/2" hooks w/i.d. to fit your line conductors. Use glove, more libation, etc.
- 5.) Make two 4' stakes w/plywood "T" near top, w/notches 3.5" apart.
- 6.) Pound the stakes into the ground, about 30' apart.
- 7.) Unwind the spool of wire & double it. Stretch it thru stake slots.
- 8.) Clamp & tension wire w/concrete blocks outside of stakes on ground.
- 9.) Hook spreaders on the wire 18" apart, then hot melt glue in place, using a "saddle-blob" over both sides of the hooks and wire.
- 10) Use hot air gun to remove glue stringers and melt glue to wire.
- 11) Advance your ladderline to the next segment. Roll up made section.
- 12) Happily apply your 250' of prime, lo-loss feeder/phasing line!

72

-s-

--

'Seab' Lyon - AA1MY
Beacon NY USA FN-31
QRP-L 574 ARCI 9253

Date: Sun, 1 Aug 1999 10:33:06 -0400 (EDT)
From: "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
To: QRP-L List <qrp-l@lehigh.edu>, gqrp@onelist.com, towertalk@contesting.com, antennas@qth.net, antennaware@contesting.com
Subject: [46548] Small Beam Series updated
Message-ID: <Pine.GS0.4.10.9908011025520.13364-1000000@larry.cas.utk.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

The small beams series that I initially scanned has now been replaced with HTML texts for easier reading and faster downloading. I have had to use scanned figures, so they will not be as crisp as other entries at the site, but are likely usable. Expect some missing symbols, like Greek letter and degree-circles, since they do not come across, and I shall have to reread all pages several times to catch even most of them--but time will improve them.

I have also placed the "I Want to Build a 3-Element Yagi" set (4 parts) at

the site, along with some updates on columns I do for various publications.

Hope some of this is useful to someone.

-73-

LB, W4RNL

L. B. Cebik, W4RNL	/\	/\	*	/	/	/	(Off) (423) 974-7215
1434 High Mesa Drive	/	\	\	\	----	/\---	(Hm) (423) 938-6335
Knoxville, Tennessee	/\	\	\	\	/	/ /	(FAX) (423) 974-3509
37938-4443 USA	/	\	\	\	\		cebik@utk.edu
URL:	http://web.utk.edu/~cebik/radio.html						

Date: Sun, 1 Aug 1999 11:26:38 EDT
From: PDouglas12@aol.com
To: QRP-L@lehigh.edu
Subject: [46549] Re K7QO building remarks and the K2
Message-ID: <9898b385.24d5c12e@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

In a message dated 7/31/99 9:49:36 PM Pacific Daylight Time, adams@ticnet.com writes:

> If you have never soldered before, here are the
> steps that I recommend and mileage may vary and
> others will/may disagree:
>
> 1. Read the ARRL Handbook on soldering techniques.
> 2. Get the VE3DNL Marker Generator from W5JAY for
> \$10 and build it and debug it.
> 3. Get the Small Wonder Labs SW-40+ or SW-30+ and
> build it. Take your time and do it neatly.
>

I agree, exactly. I would add something else, that I found surprising. If you can do the above, you can sail through a whole K2. Really. I am about 60% finished building my K2. Admittedly it is a long project. But it isn't hard. It is (dare I say it?) easy. A beginner with one kit under his/her belt like the SWL40+ can build it. With a project like the K2 which

represents a substantial investment, I might suggest a novice builder enlist some elmering, just in case, but you can do it with good solder and good soldering pencil, and good reading skills! Don't be scared off by the size of the project. OK, if you want, build a couple of projects before you try this one, say the SWL 40+ and maybe a W2 from OHR/Emtech, just to confirm you have some soldering under your belt. (And to give you a valuable station instrument for QRP forever.) But if you are neat and careful by nature, you can do it early in your ham career. I remember in the Heath heyday, a friend of mine used his Marine GI bill to build a color TV kit as an "educational" project. He had no experience. That TV ran in his house for twenty years. This proved to me that if the kit (especially the build manual) is good enough, it can be built by a near-beginner, no matter how big the project. This K2 is that good.

Preston Douglas WJ2V

Date: Sun, 1 Aug 1999 11:00:29 -0400
From: barry.p.keating.1@nd.edu
To: qrp-1@Lehigh.EDU
Subject: [46550] RS Scanner Antenna # ?
Message-ID: <v03007802b3ca112f7869@[129.74.252.91]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Does anyone know the product number for the magnetic mount scanner antenna that radio shack has on closeout?

I'd like to modify it for some mobile work.

Barry
WD4MSM

Date: Sun, 1 Aug 1999 12:31:20 -0400
From: "Tom H" <biskit@snip.net>
To: <barry.p.keating.1@nd.edu>
Cc: <qrp-1@Lehigh.edu>
Subject: [46551] Re: RS Scanner Antenna # ?
Message-ID: <008601bedc3b\$4b93a120\$c54eccd1@hybiske>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Pulled this from the "deleted" bin. Hope you can find it.
Tom K3GM

>I ran across this at lunch today:
>An All-Band Magnetic Mount Mobile Scanner Antenna
>*Covers 25 to 1300 MHz
>*Stainless Steel Whip with Sealed Load Coils
>*Transmits on 70cm, 2m, 6m Amateur Bands (up to 25 watts)

>Cat. No. 20-012

>They had several at this store for \$2.97 each.

>Have fun.

>Paul, WQ5X

----- Original Message -----

From: <barry.p.keating.1@nd.edu>

To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Sent: Sunday, August 01, 1999 11:00 AM

Subject: RS Scanner Antenna # ?

> Does anyone know the product number for the magnetic mount scanner antenna
> that radio shack has on closeout?

>

> I'd like to modify it for some mobile work.

>

>

> Barry

> WD4MSM

>

>

>

Date: Sun, 1 Aug 1999 11:34:51 -0700

From: w4bws@juno.com

To: kg2no@arrl.net

Cc: qrp-1@Lehigh.EDU

Subject: [46552] Re: Homebrew Ladder Line (was Re: Homebrew G5RV)
Message-ID: <19990801.121043.-215435.0.w4bws@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

I have used, still do, 1/2 inch plastic water pipe with a hole drilled about 1/2 inch from each end to pass the wire and held in place with RTV white bathtub caulk. works very well and has lasted about 4 years.

I use #14 AWG wire, and support the antenna at the center off the tower on a 5 foot piece of 1.5 inch plastic pipe with a pulley at one end and hose clamped on the other end to the tower. I did put a stringer line from the end of the pipe to a spot about 4 feet above the pipe to hold the end up and reduce any strain. The inverted Vee ends go to two ten foot 1.5 inch pipes at the corners of the yard and fastened to the fence posts. Neat, clean and nearly invisible.

The antenna works all bands with antenna tuner and is called a McCoy Dipole. Lew McCoy several years ago described his all band antenna which is "A length of wire long enough to go between what ever two supports you have, fed with ladder line and an antenna tuner".

I also have a wire 6 meter half wave dipole vertical under the 5 foot pipe and to another 5 foot pipe lower on the tower and the dipole is spaced 1/4 wave from the tower to get pattern to the West North West, don't need signal out over the ocean which is a block east of my house.

On Sun, 01 Aug 1999 00:15:36 -0400 "Timothy J. Strong" <kg2no@arrl.net> writes:

>Dave Ackrill wrote:

>Interesting! Okay, I don't have access to biro cases, so what else
>can be used as open wire spreaders?

I would like to make it as invisible as I can (so the XYL doesn't
>know that it's there.) I'm thinking of using 'silky' 26 AWG, 19
>strand copper-clad steel wire. What is light weight, low
>visibility, fairly strong, that can be used as a spreader? How
>would you bind it to the wire?

>

>Thanks and 73,

>

>--

>
>-Tim
>kg2no@arrl.net
>QRP-L #780

Don Sanders W4BWS
694 E. Eau Gallie Blvd
Satellite Beach ,FL 32937
My favorite QRP rig glows in the dark

Date: Sun, 1 Aug 1999 13:16:20 -0400
From: mailbox-gaskins <pgaskin@imcnet.net>
To: qrp-l@lehigh.edu
Cc: pgaskin@imcnet.net
Subject: [46553] Vibroplex Deluxe Bug to trade for a 40m qrp kit
Message-ID: <199908011716.NAA03007@ns1.imcnet.net>

Hi again,
One last try.

I have a Vibroplex Bug I would like to trade for a 40m qrp kit.
Preferably unbuilt,although I might consider a working rig that
might be sitting around someones shack gathering dust.

The bug has a Broadway,NY address and the serial #226791 and is
in very good shape.It does lack the red (plastic) jewel on the
rear yoke.

I originally purchased the bug from a collector when I felt it
was time to move "up" from the straight key.Found that it was
very unforgiving as far as sending errors.So I moved on to
paddles and with the help of Chucks CW page,really enjoy them.

You may e-mail me at pgaskin@imcnet.net and we can work out
any details.Unfortunatly I am unable to send a jpeg image as
I don't have the technology to do so.

72
Pete N2PG
QRP-L#1788

Date: Sun, 01 Aug 1999 13:16:14 -0400
From: Ted Beach <k4mkx@netzero.net>
To: kg2no@arrl.net
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>

Subject: [46554] Re: Homebrew Ladder Line (was Re: Homebrew G5RV)
Message-ID: <37A480DE.DE185586@netzero.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

I have successfully used slats from vinyl 1" miniblind slats, as I have reported here before. They are UV resistant and very lightweight.

What I do is:

- 1) Cut bunches of spreaders to 1" longer than needed spacing.
- 2) Stack about 5 spreaders together and drill a hole slightly smaller in diameter than the wire size 1/2" in from each end.
- 3) Repeat steps 1 and 2 until you have enough spreaders!
- 4) With a pair of scissors, slit each spreader from the end to the center of the drilled hole.
- 5) Start building your line!

Rather than buy a miniblind (even tho they're cheap!) you can probably "liberate" 4 or 5 slats from an existing blind. Use scissors to cut where the strings are, but *don't* cut the strings!

These don't have the strength of other spacers, but they're cheap and easy. If you *really* want to be cheap, Slit the spreaders of Step 1 into two 1/2" pieces before drilling. These narrower spreaders work just as well, present less wind resistance, and gives you two for the price of one!

Enjoy!

Ted Beach

NetZero - We believe in a FREE Internet. Shouldn't you?
Get your FREE Internet Access and Email at
<http://www.netzero.net/download/index.html>

Date: Sun, 01 Aug 1999 13:00:34 -0500
From: "George T. Baker" <w5yr@swbell.net>
To: nielsen@primenet.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [46555] Re: PSK-31
Message-ID: <37A48B42.45846CD7@swbell.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

PSK31 operates in a 31.5 HERTZ bandwidth - tuning is critical to the nearest Hertz. Most digitally tuned riceboxes that tune in 10-Hz steps are usable since the PSK31 programs can do their own AFC to keep things tuned properly. Most operators use 1000 Hz as the "audio carrier." The program provides on-screen tuning aids to facilitate getting things right.

All of that translates to a LOW tuning rate requirement for analog-tuned QRP rigs and pretty good frequency stability once the PSK station is tuned in. The program can follow slow tuning drifts but not "jumps." Extreme selectivity is not a requirement since the PSK31 program does an extremely fine job of digitally filtering the incoming signal prior to processing it.

I would enjoy reading reports of those using QRP-variety rigs receiving PSK31. Usual hangout frequency is 14.07 MHz, while some folks are trying to operate on 40 around 7080. Listen for a steady warbling sound around 1000 Hz, quite unlike the BRAP of packet and Pactor. Most PSK31 signals are quite weak sounding since power levels seldom exceed 50 watts (real QRO!) and many operate at 5 watts or less. A real QRP mode!

If anyone with QRP SSB equipment wants to venture onto PSK31, remember that like RTTY it is a key-down mode with corresponding demands on average power capability and power drain.

Finally, full PSK31 info and free software is found at

<http://aintel.bi.ehu.es/psk31.html>

The "warblers" have a very active list also.

72/73, George AMA 98452 R/C since 1964

Amateur Radio W5YR, in the 53rd year and it just keeps getting better!
AutoPOWER Systems, Fairview, TX (30 mi NE Dallas) Collin County
QRP-L QRP-ARCI FISTS NORCAL ZOMBIE ARS 10-X 33.2 N 96.6 W EM13RE

Bob Nielsen wrote:

>
> You might be able to receive (I'm not sure what audio frequencies are
> used or if the i.f. bandwidth would be too narrow), but you'd have to be
> able to modulate the radio to transmit. I'd recommend an SSB radio (WM,
> etc.) You connect to a SoundBlaster or equivalent sound card.

>
> Bob

Date: Sun, 1 Aug 1999 14:01:01 EDT
From: EBikales@aol.com
To: Qrp-l@lehigh.edu
Subject: [46556] Still undigested
Message-ID: <de5adcda.24d5e55d@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi all,

Can anyone advise me on the best way to once again, start receiving my digest mode? I've gotten nowhere with QRP-L Listproc, or AOL. I can receive mail mode but I don't really want it that way. Several other 'aol' hams have expressed having the very same problem. My thought was to simply have digests sent to Excite.com where I have another account. Should I unsubscribe first? Just trying to avoid an additional confusing messup.....so what's the best way to do this?

73,
Eric Bikales AC6NT

Date: Sun, 1 Aug 1999 14:24:53 EDT
From: GElam30092@aol.com
To: qrp-l@lehigh.edu
Subject: [46557] Small Wonders DSW 40
Message-ID: <f25ca934.24d5eaf5@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

..... finished it last night.

I'm very new to all of this. Next step it to pick an antenna tuner and antenna. For my needs, I am considering the St. Louis vertical and the LDG QRP tuner.

Does that seem to be a good compatible combination? Any advice is greatly appreciated! I like the light weight and size of the LDG and the fact that it comes in a kit. The antenna seems to be very easy to put up and take down and is a reasonably small package.

Cheers!
Gerry Elam, K1LR0
PHX AZ

Date: Sun, 1 Aug 1999 14:58:39 -0500
From: "Steve Yates, AA5TB" <aa5tb@swbell.net>
To: <EBikales@aol.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [46558] Re: Still undigested
Message-ID: <001a01bedc58\$40751400\$2637a497@aa5tb>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Just another idea...

You may want try the archive at the following web site if you haven't
already done so.:

<http://listserv.lehigh.edu/lists/Archives/qrp-1/>

It is updated daily and is available whether or not you're a member of the
list. I often use it during lunch at work to lighten my reading load when I
get home. At least you won't have any AOL or other related e-mail problems.

73,
Steve Yates - AA5TB
Fort Worth, TX - EM12gs
<http://home.swbell.net/aa5tb>

Date: Sun, 1 Aug 1999 16:28:59 -0400
From: "Richard Brummer" <obvious@bestweb.net>
To: <EBikales@aol.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.edu>
Subject: [46559] Re: Still undigested
Message-ID: <000a01bedc5c\$7d631520\$4505b3d8@default>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Eric,

Try the QRP-L website at: <http://qrp.cc.nd.edu/qrp-l/clubinfo.html>

Scroll down and click on: Set your subscription to Digest mode. Then follow the directions. That should do it.

73,

Dick K2REB

-----Original Message-----

From: EBikales@aol.com <EBikales@aol.com>

To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>

Date: Sunday, August 01, 1999 2:00 PM

Subject: Still undigested

>Hi all,

> Can anyone advise me on the best way to once again, start receiving my
>digest mode? I've gotten nowhere with QRP-L Listproc, or AOL. I can
receive

>mail mode but I don't really want it that way. Several other 'aol' hams
have

>expressed having the very same problem. My thought was to simply have

>digests sent to Excite.com where I have another account. Should I

>unsubscribe first? Just trying to avoid an additional confusing

>messup.....so what's the best way to do this?

>73,

>Eric Bikales AC6NT

>

Date: Sun, 01 Aug 1999 13:13:37 -0700

From: Brian Kassel <bkassel@dancris.com>

To: QRP-L <QRP-L@lehigh.edu>, azqrp <azqrp@extremezone.com>, Dan Tayloe
<Dan_Tayloe-P26412@email.mot.com>

Subject: [46560] MTP3055E Same as MTP3055V or MTP3055VL?

Message-ID: <37A4AA71.DEDFDE36@dancris.com>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Content-Transfer-Encoding: 7bit

Gangues:

I am finally getting around to installing all of the modifications to the Index QRP+ that Larry East and others have developed and published in the QRP Quarterly. In the final amplifier modification, Larry East uses an MTP3055E. I see that Tech America has 2 possible substitutes on page 73 of their catalog C989.

MTP3055V @ \$1.09 Ea.

MTP3055VL @ \$1.59 Ea.

My question is: Can either or both of these transistors be substituted for the MTP3055E as outlined in Larry's article? My gut feeling is that either would work OK, but before I hack the radio, I'd like an expert opinion from any of the RF trained folks on the QRP-L;). I'll run down to our local TA store tomorrow first thing and pick up 1 or 2.

Not sure how many on the list have QRP+ radios that they would like to modify per Larry's articles, but I suspect that there are at least a few, so you might want to copy the QRP-L as well with your reply. I'll be only too glad to post the results of my query as well.

Thanks to all who take the time to reply in advance,

Brian W5VB0

Date: Sun, 01 Aug 1999 16:50:21 -0400
From: Michael Bower <bowerm@ix.netcom.com>
To: qrp-l <qrp-l@lehigh.edu>
Subject: [46561] Heathkit Green Paint-by-Numbers
Message-ID: <37A4B30D.45484E29@ix.netcom.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

You asked for it. Here it is. There are the numbers for the Heathkit Green from Home Depot

Base paint:

Behr Premium Plus Interior Eggshell Access Base 2600

(this is from the label on the can)

Colorant/OZ/48/96 (I assume these are mix amounts)

E - Thalo Blue / 2 / 10 / 1 (2 oz, 10 "48s", 1 "96")
I - Brown Oxide / 0 / 19 / 0
T - Medium Yell / 0 / 28 / 1

Good luck.

Remember, minimum is 1 quart. More than enough to cover all 10 of your radios.

Michael - N4NMR

Date: Sun, 01 Aug 1999 17:29:52 -0400
From: radioham@erols.com
To: qrp-1@Lehigh.EDU
Subject: [46562] CQ Summer Daze SSB Sprint
Message-ID: <3.0.6.32.19990801172952.0079b5d0@pop.erols.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Anyone on 20??? I have heard no one at about 14.285 + or minus a lot.
Calling, but no responses. Time now is 21:30Z.

72/73,

Steve, N4EUK
Reston, VAQ

Date: Sun, 1 Aug 1999 17:55:12 -0400
From: "Al Gritzmacher " <ae2t@arrl.net>
To: qrp-1@Lehigh.EDU
Subject: [46563] Re: antenna wire
Message-ID: <199908012155.RAA23425@mx2.localnet.com>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Content-Transfer-Encoding: 7BIT

On 31 Jul 99, at 19:03, qrp-1@Lehigh.EDU wrote:

>
> Those are ratings used by the NEC (and probably others).
>
> >12 AWG TYPE THHN OR

> >THWN E14656 GASOLINE AND OIL RESISTANT. THIS may be an Industrial >standard
>
> T = Thermoplastic
> H = 75 degree C insulation
> HH = 90 degree C insulation
> W = Wet locations
> N = Nylon jacket (or equivalent)
>
> Wire with the ratings you indicated would be good stuff

"GASOLINE AND OIL RESISTANT" is usually a tip-off that this wire has insulation that is two layers, the first being the colored plastic, and the second being a clear, hard outer shell.

This stuff is notorious for deteriorating in the sunlight and hanging off antennas in strips. Does no harm, but looks pretty bad.

A better choice, if you are going to use 'electrical' wire for an antenna. would be MTW which has only the first layer of insulation. It is also more flexible and won't kink as much, although with solid wire you probably won't notice that difference.

I usually prefer to build antennas with antenna wire. The insulation only adds weight that makes it harder to get the center up in the air.

I've used solid and stranded copperweld and had the copper wear through at the insulators and let the steel center rust through. I no longer use copperweld.

A long antenna made of stranded copper wire keeps so much tension on the wire, there is no room for water or air to get between the strands or for them to move independently. When stranded wire is formed in the factory, it is wound and pulled through a die and the strands are no longer round. Even if it did oxidize, what would you have, an antenna made of seven, parallel strands? Don't even worry about it.

If you really want insulated antenna wire, try the wire with the black insulation sold by the Wireman etc.

=====

The amazing thing about QRP is not how many contacts are made, but that they are made at all. Every QS0 is a contradiction of conventional wisdom.

72,

Al Gritzmacher, AE2T

QRP-L #1664 QRP-ARCI #9837 K2 #274

ae2t@arrl.net

<http://members.localnet.com/~ae2t/>
QRP - If you don't try, you'll never know!

Date: Sun, 1 Aug 1999 17:58:51 EDT
From: RangerSF5@aol.com
To: qrp-1@lehigh.edu
Subject: [46564] Trade for qrp rig
Message-ID: <71d0409e.24d61d1b@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi Gang,
I have a MFJ Analyzer the 259-B Model with the dip coils and all the paper work.
I just don't have time to build a kit and looking for a Norcal 40-A with a KC-1 keyer that i'd like to swap out.
I like to wheel and deal so tell me what you have.
Please *E* mail diThank you
Bob
WA2HOQrp <tm>

Date: Mon, 02 Aug 1999 08:12:20 +1000
From: "Ian C. Purdie VK2TIP" <ianpurdie@integritynet.com.au>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [46565] Re: LCD Clock...For UR Shack
Message-ID: <37A4C644.9E848CA7@integritynet.com.au>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

F4EIB@aol.com wrote:

> Found a Travel Alarm Clock (RS 63-959) on sale for \$12.99.

Sounds like a good buy - if only as a source of parts for another project

> Screen 1.6"

What is it?

73's

Ian Purdie

VK2TIP "I'll give you the TIP mate"

Budgewoi N.S.W. Australia

Tel: 61 + 2 + 4399 3228 (2200 - 0800 U.T.C. please.)

QRP-L member #1978.

URL - <http://www.integritynet.com.au/~purdic/>

URL - <http://www.qsl.net/vk2tip/>

"Three out of five Web experts agree that frames are the work of the devil and represent all that is evil about the Web. The remaining two experts are agnostic and think that frames are just a stupid idea" -

Date: Sun, 1 Aug 1999 18:13:58 EDT

From: "Jeffrey L. L. Greer" <wd4et@juno.com>

To: GElam30092@aol.com

Cc: qrp-l@Lehigh.EDU

Subject: [46566] Re: Small Wonders DSW 40

Message-ID: <19990801.181455.3982.0.wd4et@juno.com>

I just finished building the LDG QRP Autotuner. It went together very easily. It took about two evenings to finish the construction. The point to point wiring for the enclosure was the most tedious part. Everything in the kit is high quality except the spring loaded toggle switches. Particularly the ones for manually changing the capacitance and inductance. Their operation is very sloppy. Much of the time you have to manually move them back to the center (neutral) position.

IMHO, there is little need for the capacitance and inductance switches. I found that adjusting them manually to be cumbersome and inaccurate. Along the same lines, the semi/auto tune switch is un-needed. It's probably best to leave it in the semi mode and press the "tune" button when you want to activate the search. When in the auto mode, the processor never goes into the sleep mode, generating possible interference all of the time. It doesn't go into the search mode automatically until the SWR goes above 3:1 anyway, which is a little high for most qrp rigs. I also felt that the "tune" LED is redundant since you can hear the relays buzzing whenever it is in the tune mode.

The tuner performs well for me. I have a G5RV up that is badly in need of maintenance. It finds a <1.5:1 match almost every time while using only 0.2 watts for tuning. The search is quite fast. Usually less than a second. Current consumption is reasonable. I measured it several times and usually ends up around 120 - 130 mW.

It works well with my FT-840 and NC-40A. It also works well with my K2 though some have had a problem with that combination.

Just my 2 cents worth. No connection with LDG. Just a satisfied customer.

73, Jeff

Get the Internet just the way you want it.
Free software, free e-mail, and free Internet access for a month!
Try Juno Web: <http://dl.www.juno.com/dynoget/tagj>.

Date: Mon, 02 Aug 1999 08:36:32 +1000
From: "Ian C. Purdie VK2TIP" <ianpurdie@integritynet.com.au>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [46567] Homebrew variable inductors
Message-ID: <37A4CBF0.BA744F97@integritynet.com.au>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Gang,

I'm interested in any ideas for home brewing variable inductors (not as in "tuned transformer" and not as in "roller inductor").

The type as in equivalent to variable capacitor for continuous tuning.

I have a circuit (yet to build it) for a VFO where the tuning control is an "opposing voltage" but I'm more interested (at the moment) in one for RF filter. Some automobile radios were once tuned this way. BTW as always, Q degradation is a factor.

Anyone fiddled with these?

73's

Ian Purdie
VK2TIP "I'll give you the TIP mate"
Budgewoi N.S.W. Australia
Tel: 61 + 2 + 4399 3228 (2200 - 0800 U.T.C. please.)
QRP-L member #1978.
URL - <http://www.integritynet.com.au/~purdic/>
URL - <http://www.qsl.net/vk2tip/>
"Three out of five Web experts agree that frames are the work of the

devil and represent all that is evil about the Web. The remaining two experts are agnostic and think that frames are just a stupid idea" -

Date: Sun, 1 Aug 1999 18:48:50 EDT
From: Bensondj@aol.com
To: qrp-1@lehigh.edu
Subject: [46568] DSW Enclosures- Status Report
Message-ID: <44642b0c.24d628d2@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

gang-

I've gotten lots of questions regarding availability of the DSW enclosure kits, especially since some of the 'lucky' attendees at Ft. Tuthill received theirs last Saturday.

I'll go with the bad news first: There's a fit interference with the first batch I received at Tuthill- I've returned the remainder of them to the supplier.

And the good news- I should have the first batch of the corrected ones back here by this coming Friday. I'll then start shipping the enclosure kits, and I'll clear the backlog as fast as I possibly can.

If you received a DSW enclosure kit from me at Ft. Tuthill, please return the bottom cover (with the four holes) to me and I'll make it right.

Thanks for your extraordinary patience- we'll get through this!

73- Dave Benson, NN1G
Small Wonder Labs

Date: Sun, 1 Aug 1999 15:57:39 -0700 (MST)
From: Chris Trask <ctrask@primenet.com>
To: "Ian C. Purdie VK2TIP" <ianpurdie@integritynet.com.au>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Subject: [46569] Re: Homebrew variable inductors
Message-ID: <Pine.BSI.3.96.990801155524.2954A-1000000@usr06.primenet.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Ian,

If you're not dealing with much power, and preferably small-signal at that, you might consider using a trnsductor. I published an article on these in Applied Microwaves & Wireless in the Sep/Oct 1997 issue. My web page has an extensive bibliography on these little critters.

Chris

On Mon, 2 Aug 1999, Ian C. Purdie VK2TIP wrote:

> Gang,
>
> I'm interested in any ideas for home brewing variable inductors (not as
> in "tuned transformer" and not as in "roller inductor").
>
> The type as in equivalent to variable capacitor for continuous tuning.
>
> I have a circuit (yet to build it) for a VFO where the tuning control is
> an "opposing voltage" but I'm more interested (at the moment) in one for
> RF filter. Some automobile radios were once tuned this way. BTW as
> always, Q degradation is a factor.
>
> Anyone fiddled with these?
>
> 73's
>
> Ian Purdie
> VK2TIP "I'll give you the TIP mate"
> Budgewoi N.S.W. Australia
> Tel: 61 + 2 + 4399 3228 (2200 - 0800 U.T.C. please.)
> QRP-L member #1978.
> URL - <http://www.integritynet.com.au/~purdic/>
> URL - <http://www.qsl.net/vk2tip/>
> "Three out of five Web experts agree that frames are the work of the
> devil and represent all that is evil about the Web. The remaining two
> experts are agnostic and think that frames are just a stupid idea" -
>
>

/-----.
/ What's all this \

Circuit Design for the
RF Impaired

Chris Trask / N7ZWY
Principal Engineer
ATG Design Services
P.O. Box 25240
Tempe, Arizona 85285-5240

Technical Editor,
QRP Quarterly
QRP ARCI 9464

Email: ctrask@primenet.com
<http://www.primenet.com/~ctrask>

Graphics by Loek Frederiks

Date: Sun, 1 Aug 1999 19:00:54 -0400
From: "Ron Polityka" <wb3aal@talon.net>
To: "QRP-L" <qrp-l@Lehigh.EDU>
Subject: [46570] DX Worked on SSB
Message-ID: <006201bedc71\$b62efb20\$33e508cf@wb3aal>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hello All,

Just worked EZ7ST from Turkmenistan, 6284 miles,
on 14 MHz and 5 watts. I was working the Summer
Daze SSB QRP Contest.

Wow!!!

72 & 73
Good DXing

Ron Polityka
de WB3AAL
wb3aal@talon.net

vvv Eastern Pennsylvania QRP Web Page vvv

http://www.kpsnet.com/wb3aal/Start_Page.htm
Eastern Pennsylvania QRP Club Call --> N3EPA

EPA QRP #1	NJ QRP #179
KL7 QRP # 309	G-QRP # 3031
ARCI QRP # 5318	10 - X #13173
NorCal #	Zombie #625
ARS # 380	Bumblebee #15

SETI @ Home Project
<http://setiathome.ssl.berkeley.edu>

End of QRP-L Digest 1535

